

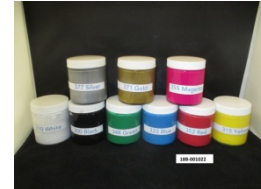


TEST REPORT

Test Report # 18B-001022 Date of Report Issue: August 2, 2018
 Date of Sample Received: July 24, 2018 Pages: Page 1 of 15

CLIENT INFORMATION:

Company: Boston Industrial Solutions, Inc.
 Recipient: Ephraim Wahiga
 Recipient Email: ephraim.w@bostonindustrialsolutions.com



SAMPLE INFORMATION:

Description:	Inks	Purchase Order Number:	PO-0000621
Assortment:	310 White, 300 Black, 348 Green, 333 Blue, 352 Red, 315 Yellow, 377 Silver, 371 Gold & 355 Magenta	Toy Co./Agency:	-
SKU/Style No.:	-	Country of Origin:	USA
Factory/Supplier/Vendor:	-	Labeled Age Grade:	-
Country of Distribution:	World Wide	Recommended Age Grade:	-
Quantity Submitted:	9 Containers (1 Per color)	Tested Age Grade:	-
Testing Period:	7/25/18 – 8/2/18		

OVERALL RESULT:



Refer to page 2 for test result summary and appropriate notes.

ANSECO GROUP, LLC

 David Ennis
 Manager, Chemical Laboratory



TEST RESULT SUMMARY:

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	CPSIA Section 101 & 16 CFR 1303, Total Lead Content in Paints & Surface Coatings
PASS	CPSIA Section 106 & ASTM F963-17 Section 4.3.5.1(2), Soluble Heavy Metals Content in Paints & Surface Coatings
PASS	ASTM F2923-14 Clause 8, Soluble Elements in Paint and Surface Coatings
PASS	The Illinois Lead Poisoning Prevention Act (LPPA) (410 ILCS 45/6), Total Lead Content in Surface Coatings of Children’s Jewelry and Childcare Articles
PASS	Connecticut Public Act 10-113 (Substituted House Bill 5314), Total Cadmium Content in Children’s Jewelry
PASS	Minnesota Chapter 347-S.F. No. 2510, Cadmium in Children's Jewelry
PASS	Maryland Chapter 578 (House Bill 145), Total Cadmium in Children’s Jewelry
PASS	Washington Children's Safe Products Act RCW 70.240.020, Cadmium Content
PASS	Canadian Surface Coating Materials Regulations SOR/2016-193, Total Lead and Mercury in Surface Coatings
PASS	Canadian Toys Regulations SOR/2011-17 amended by SOR/2016-195 & SOR/2016-302, Section 23, Total Lead, Total Mercury and Leachable Metals in Surface Coatings
PASS	Mexican Environmental Health NOM-252-SSA1-2011, Soluble Elements from Toys and School Supplies
PASS	16 CFR 1307 Prohibition of Children’s Toys and Child Care Articles Containing Specified Phthalates (8)
PASS	Client Requirement, California Proposition 65, Phthalate Content (6)
PASS	Revised Code of Washington Section 70.240.020, Phthalates in Children’s Product



DETAILED RESULTS:

CPSIA Section 101 & 16 CFR 1303, Total Lead Content in Paints & Surface Coatings

CPSIA Section 106 & ASTM F963-17 Section 4.3.5.1(2), Soluble Heavy Metals Content in Paints & Surface Coatings

ASTM F2923-14 Clause 8, Soluble Elements in Paint and Surface Coatings

Connecticut Public Act 10-113 (Substituted House Bill 5314), Total Cadmium Content in Children’s Jewelry

The Illinois Lead Poisoning Prevention Act (LPPA) (410 ILCS 45/6), Total Lead Content in Surface Coatings of Children’s Jewelry and Childcare Articles

Minnesota Chapter 347-S.F. No. 2510, Cadmium in Children’s Jewelry

Maryland Chapter 578 (House Bill 145), Total Cadmium in Children’s Jewelry

Washington Children's Safe Products Act RCW 70.240.020, Cadmium Content

Analytical determination by ICP-OES (Method: CPSC-CH-E1003-09.1)

	Specimen No.						
	1	2	3	4	5		
	Total Result	Total Result	Total Result	Total Result	Total Result		
Lead (Pb)	LT 5	LT 5	LT 5	LT 5	LT 5	CPSIA Total Limit	
						90 ppm	
Lead (Pb)	LT 5	LT 5	LT 5	LT 5	LT 5	Illinois Total Limit	
						40 ppm	
Cadmium (Cd)	LT 5	LT 5	LT 5	LT 5	LT 5	Connecticut Total Limit	
						75 ppm	
Cadmium (Cd)	LT 5	LT 5	LT 5	LT 5	LT 5	Minnesota Total Limit	
						75 ppm	
Cadmium (Cd)	LT 5	LT 5	LT 5	LT 5	LT 5	Maryland Total Limit	
						75 ppm	
Cadmium (Cd)	LT 5	LT 5	LT 5	LT 5	LT 5	Washington Total Limit	
						40 ppm	
	Total Result	Total Result	Total Result	Total Result	Total Result	ASTM F963 Soluble Limits	ASTM F2923 Soluble Limits
Antimony (Sb)	LT 5	LT 5	LT 5	LT 5	LT 5	60 ppm	60 ppm
Arsenic (As)	LT 5	LT 5	LT 5	LT 5	LT 5	25 ppm	25 ppm
Barium (Ba)	LT 5	LT 5	LT 5	LT 5	LT 5	1000 ppm	1000 ppm
Cadmium (Cd)	LT 5	LT 5	LT 5	LT 5	LT 5	75 ppm	75 ppm
Chromium (Cr)	LT 5	LT 5	LT 5	LT 5	LT 5	60 ppm	60 ppm
Lead (Pb)	LT 5	LT 5	LT 5	LT 5	LT 5	90 ppm	-
Mercury (Hg)	LT 5	LT 5	LT 5	LT 5	LT 5	60 ppm	60 ppm
Selenium (Se)	LT 5	LT 5	LT 5	LT 5	LT 5	500 ppm	500 ppm
Conclusion	PASS	PASS	PASS	PASS	PASS		

LT = Less Than

Results are reported in parts per million (ppm)

Note: The total heavy metals results do not exceed the soluble heavy metals limits; therefore, further soluble analyses were not conducted.



DETAILED RESULTS:

CPSIA Section 101 & 16 CFR 1303, Total Lead Content in Paints & Surface Coatings

CPSIA Section 106 & ASTM F963-17 Section 4.3.5.1(2), Soluble Heavy Metals Content in Paints & Surface Coatings

ASTM F2923-14 Clause 8, Soluble Elements in Paint and Surface Coatings

Connecticut Public Act 10-113 (Substituted House Bill 5314), Total Cadmium Content in Children’s Jewelry

The Illinois Lead Poisoning Prevention Act (LPPA) (410 ILCS 45/6), Total Lead Content in Surface Coatings of Children’s Jewelry and Childcare Articles

Minnesota Chapter 347-S.F. No. 2510, Cadmium in Children’s Jewelry

Maryland Chapter 578 (House Bill 145), Total Cadmium in Children’s Jewelry

Washington Children's Safe Products Act RCW 70.240.020, Cadmium Content

Analytical determination by ICP-OES (Method: CPSC-CH-E1003-09.1)

	Specimen No.						
	6	7	8	9	-		
	Total Result	Total Result	Total Result	Total Result	Total Result		
Lead (Pb)	LT 5	LT 5	LT 5	LT 5	-	CPSIA Total Limit	
						90 ppm	
Lead (Pb)	LT 5	LT 5	LT 5	LT 5	-	Illinois Total Limit	
						40 ppm	
Cadmium (Cd)	LT 5	LT 5	LT 5	LT 5	-	Connecticut Total Limit	
						75 ppm	
Cadmium (Cd)	LT 5	LT 5	LT 5	LT 5	-	Minnesota Total Limit	
						75 ppm	
Cadmium (Cd)	LT 5	LT 5	LT 5	LT 5	-	Maryland Total Limit	
						75 ppm	
Cadmium (Cd)	LT 5	LT 5	LT 5	LT 5	-	Washington Total Limit	
						40 ppm	
	Total Result	Total Result	Total Result	Total Result	-	ASTM F963 Soluble Limits	ASTM F2923 Soluble Limits
Antimony (Sb)	LT 5	LT 5	LT 5	LT 5	-	60 ppm	60 ppm
Arsenic (As)	LT 5	LT 5	LT 5	LT 5	-	25 ppm	25 ppm
Barium (Ba)	LT 5	LT 5	LT 5	LT 5	-	1000 ppm	1000 ppm
Cadmium (Cd)	LT 5	LT 5	LT 5	LT 5	-	75 ppm	75 ppm
Chromium (Cr)	LT 5	LT 5	LT 5	LT 5	-	60 ppm	60 ppm
Lead (Pb)	LT 5	LT 5	LT 5	LT 5	-	90 ppm	-
Mercury (Hg)	LT 5	LT 5	LT 5	LT 5	-	60 ppm	60 ppm
Selenium (Se)	LT 5	LT 5	LT 5	LT 5	-	500 ppm	500 ppm
Conclusion	PASS	PASS	PASS	PASS	-		

LT = Less Than

Results are reported in parts per million (ppm)

Note: The total heavy metals results do not exceed the soluble heavy metals limits; therefore, further soluble analyses were not conducted.



DETAILED RESULTS:

Canadian Surface Coating Materials Regulations SOR/2016-193, Total Lead and Mercury in Surface Coatings

Analytical determination by ICP-OES (Method: CPSC-CH-E1003-09.1)

	Specimen No.				
	1	2	3	4	
	Total Result	Total Result	Total Result	Total Result	Total Limits
Lead (Pb)	LT 5	LT 5	LT 5	LT 5	90 ppm
Mercury (Hg)	LT 5	LT 5	LT 5	LT 5	10 ppm
Conclusion	PASS	PASS	PASS	PASS	

	Specimen No.				
	5	6	7	8	
	Total Result	Total Result	Total Result	Total Result	Total Limits
Lead (Pb)	LT 5	LT 5	LT 5	LT 5	90 ppm
Mercury (Hg)	LT 5	LT 5	LT 5	LT 5	10 ppm
Conclusion	PASS	PASS	PASS	PASS	

	Specimen No.				
	9	-	-	-	
	Total Result	Total Result	Total Result	Total Result	Total Limits
Lead (Pb)	LT 5	-	-	-	90 ppm
Mercury (Hg)	LT 5	-	-	-	10 ppm
Conclusion	PASS	-	-	-	

LT = Less Than

Results are reported in parts per million (ppm)



DETAILED RESULTS:

Canadian Toys Regulations SOR/2011-17 amended by SOR/2016-195 & SOR/2016-302, Section 23, Total Lead, Total Mercury and Leachable Metals in Surface Coatings

Analytical determination by ICP-OES (Method: CPSC-CH-E1003-09.1)

	Specimen No.						Total Limits
	1	2	3	4	5	6	
	Total Result	Total Result	Total Result	Total Result	Total Result	Total Result	
Lead (Pb)	LT 5	LT 5	LT 5	LT 5	LT 5	LT 5	90 ppm
Mercury (Hg)	LT 5	LT 5	LT 5	LT 5	LT 5	LT 5	10 ppm
	Total Result	Total Result	Total Result	Total Result	Total Result	Total Result	Leachable Limits
Antimony (Sb)	LT 5	LT 5	LT 5	LT 5	LT 5	LT 5	1000 ppm
Arsenic (As)	LT 5	LT 5	LT 5	LT 5	LT 5	LT 5	1000 ppm
Barium (Ba)	LT 5	LT 5	LT 5	LT 5	LT 5	LT 5	1000 ppm
Cadmium (Cd)	LT 5	LT 5	LT 5	LT 5	LT 5	LT 5	1000 ppm
Selenium (Se)	LT 5	LT 5	LT 5	LT 5	LT 5	LT 5	1000 ppm
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	

LT = Less Than

Results are reported in parts per million (ppm)

Notes: The total metal results do not exceed the leachable limits, therefore leachable analyses were not conducted.



DETAILED RESULTS:

Canadian Toys Regulations SOR/2011-17 amended by SOR/2016-195 & SOR/2016-302, Section 23, Total Lead, Total Mercury and Leachable Metals in Surface Coatings

Analytical determination by ICP-OES (Method: CPSC-CH-E1003-09.1)

	Specimen No.						Total Limits
	7	8	9	-	-	-	
	Total Result	Total Result	Total Result	Total Result	Total Result	Total Result	
Lead (Pb)	LT 5	LT 5	LT 5	-	-	-	90 ppm
Mercury (Hg)	LT 5	LT 5	LT 5	-	-	-	10 ppm
	Total Result	Total Result	Total Result	Total Result	Total Result	Total Result	Leachable Limits
Antimony (Sb)	LT 5	LT 5	LT 5	-	-	-	1000 ppm
Arsenic (As)	LT 5	LT 5	LT 5	-	-	-	1000 ppm
Barium (Ba)	LT 5	LT 5	LT 5	-	-	-	1000 ppm
Cadmium (Cd)	LT 5	LT 5	LT 5	-	-	-	1000 ppm
Selenium (Se)	LT 5	LT 5	LT 5	-	-	-	1000 ppm
Conclusion	PASS	PASS	PASS	-	-	-	

LT = Less Than

Results are reported in parts per million (ppm)

Notes: The total metal results do not exceed the leachable limits, therefore leachable analyses were not conducted.



DETAILED RESULTS:

Mexican Environmental Health NOM-252-SSA1-2011, Soluble Elements from Toys and School Supplies

Analytical determination by ICP-OES (Method: CPSC-CH-E1003-09.1)

	Specimen No.						Soluble Limits
	1	2	3	4	5	6	
	Total Result	Total Result	Total Result	Total Result	Total Result	Total Result	
Antimony (Sb)	LT 5	LT 5	LT 5	LT 5	LT 5	LT 5	60 ppm
Arsenic (As)	LT 5	LT 5	LT 5	LT 5	LT 5	LT 5	25 ppm
Barium (Ba)	LT 5	LT 5	LT 5	LT 5	LT 5	LT 5	1000 ppm
Cadmium (Cd)	LT 5	LT 5	LT 5	LT 5	LT 5	LT 5	75 ppm
Chromium (Cr)	LT 5	LT 5	LT 5	LT 5	LT 5	LT 5	60 ppm
Lead (Pb)	LT 5	LT 5	LT 5	LT 5	LT 5	LT 5	90 ppm
Mercury (Hg)	LT 5	LT 5	LT 5	LT 5	LT 5	LT 5	60 ppm
Selenium (Se)	LT 5	LT 5	LT 5	LT 5	LT 5	LT 5	500 ppm
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	

LT = Less Than

Results reported in parts per million (ppm)

Note: The total heavy metals results do not exceed the soluble heavy metals limits; therefore, further soluble analyses were not conducted.



DETAILED RESULTS:

Mexican Environmental Health NOM-252-SSA1-2011, Soluble Elements from Toys and School Supplies

Analytical determination by ICP-OES (Method: CPSC-CH-E1003-09.1)

	Specimen No.						Soluble Limits
	7	8	9	-	-	-	
	Total Result	Total Result	Total Result	Total Result	Total Result	Total Result	
Antimony (Sb)	LT 5	LT 5	LT 5	-	-	-	60 ppm
Arsenic (As)	LT 5	LT 5	LT 5	-	-	-	25 ppm
Barium (Ba)	LT 5	LT 5	LT 5	-	-	-	1000 ppm
Cadmium (Cd)	LT 5	LT 5	LT 5	-	-	-	75 ppm
Chromium (Cr)	LT 5	LT 5	LT 5	-	-	-	60 ppm
Lead (Pb)	LT 5	LT 5	LT 5	-	-	-	90 ppm
Mercury (Hg)	LT 5	LT 5	LT 5	-	-	-	60 ppm
Selenium (Se)	LT 5	LT 5	LT 5	-	-	-	500 ppm
Conclusion	PASS	PASS	PASS	-	-	-	

LT = Less Than

Results reported in parts per million (ppm)

Note: The total heavy metals results do not exceed the soluble heavy metals limits; therefore, further soluble analyses were not conducted.

**DETAILED RESULTS:****16 CFR 1307 Prohibition of Children’s Toys and Child Care Articles Containing Specified Phthalates (8)
Client Requirement, California Proposition 65, Phthalate Content (6)**

Analytical determination by GC/MS (Method: CPSC-CH-C1001-09.3)

Phthalate	Specimen No.					16 CFR 1307 Limits (%)	Client Limits, Cal Prop (%)
	1	2	3	4	5		
dibutyl phthalate (DBP)	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	0.1	0.1
benzyl butyl phthalate (BBP)	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	0.1	0.1
di-(2-ethylhexyl) phthalate (DEHP)	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	0.1	0.1
diisononyl phthalate (DINP)	LT 0.02	LT 0.02	LT 0.02	LT 0.02	LT 0.02	0.1	0.1
diisodecyl phthalate (DIDP)	LT 0.02	LT 0.02	LT 0.02	LT 0.02	LT 0.02	-	0.1
di-n-hexyl phthalate (DnHP/DHEXP)	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	0.1	0.1
diisobutyl phthalate (DiBP)	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	0.1	-
di-n-pentyl phthalate (DnPP/DPENP)	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	0.1	-
dicyclohexyl phthalate (DCHP)	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	0.1	-
Conclusion	PASS	PASS	PASS	PASS	PASS		

LT = Less Than

Results reported as percent by weight

**DETAILED RESULTS:****16 CFR 1307 Prohibition of Children’s Toys and Child Care Articles Containing Specified Phthalates (8)
Client Requirement, California Proposition 65, Phthalate Content (6)**

Analytical determination by GC/MS (Method: CPSC-CH-C1001-09.3)

Phthalate	Specimen No.					16 CFR 1307 Limits (%)	Client Limits, Cal Prop (%)
	6	7	8	9	-		
dibutyl phthalate (DBP)	LT 0.01	LT 0.01	LT 0.01	LT 0.01	-	0.1	0.1
benzyl butyl phthalate (BBP)	LT 0.01	LT 0.01	LT 0.01	LT 0.01	-	0.1	0.1
di-(2-ethylhexyl) phthalate (DEHP)	LT 0.01	LT 0.01	LT 0.01	LT 0.01	-	0.1	0.1
diisononyl phthalate (DINP)	LT 0.02	LT 0.02	LT 0.02	LT 0.02	-	0.1	0.1
diisodecyl phthalate (DIDP)	LT 0.02	LT 0.02	LT 0.02	LT 0.02	-	-	0.1
di-n-hexyl phthalate (DnHP/DHEXP)	LT 0.01	LT 0.01	LT 0.01	LT 0.01	-	0.1	0.1
diisobutyl phthalate (DiBP)	LT 0.01	LT 0.01	LT 0.01	LT 0.01	-	0.1	-
di-n-pentyl phthalate (DnPP/DPENP)	LT 0.01	LT 0.01	LT 0.01	LT 0.01	-	0.1	-
dicyclohexyl phthalate (DCHP)	LT 0.01	LT 0.01	LT 0.01	LT 0.01	-	0.1	-
Conclusion	PASS	PASS	PASS	PASS	-		

LT = Less Than

Results reported as percent by weight



DETAILED RESULTS:

Revised Code of Washington Section 70.240.020, Phthalates in Children’s Product

Analytical determination by GC/MS (Method: CPSC-CH-C1001-09.3)

Phthalate	Specimen No.					Limits (%)
	1	2	3	4	5	
Dibutyl Phthalate (DBP)	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	0.1
Benzyl Butyl Phthalate (BBP)	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	0.1
Di-(2-ethylhexyl) Phthalate (DEHP)	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	0.1
Di-n-octyl Phthalate (DnOP)	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	0.1
Diisononyl Phthalate (DINP)	LT 0.02	LT 0.02	LT 0.02	LT 0.02	LT 0.02	0.1
Diisodecyl Phthalate (DIDP)	LT 0.02	LT 0.02	LT 0.02	LT 0.02	LT 0.02	0.1
Sum of Above (6)	LT 0.02	LT 0.02	LT 0.02	LT 0.02	LT 0.02	0.1
Conclusion	PASS	PASS	PASS	PASS	PASS	

LT = Less Than
Results reported as percent by weight



DETAILED RESULTS:

Revised Code of Washington Section 70.240.020, Phthalates in Children’s Product

Analytical determination by GC/MS (Method: CPSC-CH-C1001-09.3)

Phthalate	Specimen No.					Limits (%)
	6	7	8	9	-	
Dibutyl Phthalate (DBP)	LT 0.01	LT 0.01	LT 0.01	LT 0.01	-	0.1
Benzyl Butyl Phthalate (BBP)	LT 0.01	LT 0.01	LT 0.01	LT 0.01	-	0.1
Di-(2-ethylhexyl) Phthalate (DEHP)	LT 0.01	LT 0.01	LT 0.01	LT 0.01	-	0.1
Di-n-octyl Phthalate (DnOP)	LT 0.01	LT 0.01	LT 0.01	LT 0.01	-	0.1
Diisononyl Phthalate (DINP)	LT 0.02	LT 0.02	LT 0.02	LT 0.02	-	0.1
Diisodecyl Phthalate (DIDP)	LT 0.02	LT 0.02	LT 0.02	LT 0.02	-	0.1
Sum of Above (6)	LT 0.02	LT 0.02	LT 0.02	LT 0.02	-	0.1
Conclusion	PASS	PASS	PASS	PASS	-	

LT = Less Than
Results reported as percent by weight

**SPECIMEN DESCRIPTION:**

Specimen No.	Specimen Description (Color)	Location
1	White Ink	310 White Wet Ink
2	Black Ink	300 Black Wet Ink
3	Green Ink	348 Green Wet Ink
4	Blue Ink	333 Blue Wet Ink
5	Red Ink	352 Red Wet Ink
6	Yellow Ink	315 Yellow Wet Ink
7	Silver Ink	377 Silver Wet Ink
8	Gold Ink	371 Gold Wet Ink
9	Magenta Ink	355 Magenta Wet Ink



SAMPLE PHOTO:



-End Report-